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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/880,106	06/12/2001	Tim Allen	ALTRP064	3098

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EXAMINER

SIEK, VUTHE

ART UNIT

PAPER NUMBER

2825

DATE MAILED: 07/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/880,106

Applicant(s)

ALLEN ET AL.

Examiner

Vuthe Siek

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-93 is/are pending in the application.
- 4a) Of the above claim(s) 32-93 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12, 14-23 and 25-30 is/are rejected.
- 7) ☒ Claim(s) 13, 24 and 31 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/14/02, 8/8/02</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to application 09/880,106 and response to restriction filed on 5/11/2004. Claims 1-93 remain pending in the application.

2. Applicant's election with traverse of the invention Group I: claims 1-31 filed on May 11, 2004 is acknowledged. The traversal is on the ground(s) that all claims relate to parameterizing peripherals and applicant(s) stated that it should not present an undue burden to search all claims together. This is not found persuasive because different inventions as described in previous office action cause burden to search different groups of the invention. The requirement is still deemed proper and is therefore made FINAL. This application contains claims 32-93 drawn to an invention nonelected with traverse in the reply filed on 5/11/2004. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

3. Applicant's election with traverse of the invention Group I: claims 1-31 filed on May 11, 2004 is acknowledged. The traversal is on the ground(s) that all claims relate to parameterizing peripherals and applicant(s) stated that it should not present an undue burden to search all claims together. This is not found persuasive because different inventions as described in previous office action cause burden to search different groups of the invention. The requirement is still deemed proper and is therefore made FINAL. This application contains claims 32-93 drawn to an invention nonelected with traverse in the reply filed on 5/11/2004. A complete reply to the final rejection

(restriction/election) must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 18 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear to what “first parameter information”, “second parameter information” are specifically referred to.

Other dependent claims which are not specifically cited above are also rejected because of the deficiencies of their respective parent claims.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-2, 5-12, 14-15, 18-23 and 25-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Rhim et al. (6,006,022).

8. As to claims 1, 18 and 25, Rhim et al. teach a method for implementing a programmable chip comprising identifying first parameter information for configuring the

processor core on the programmable chip; identifying second parameter information for configuring the peripheral on the programmable chip and generating a logic description using the first and second parameter information to provide logic information for implementing the processor core and the peripheral on the programmable chip (Fig. 1 and description; col. 14-16, summary).

9. As to claims 2, 5-12, 14-15, 19-23 and 26-30, Rhim et al. teach the peripheral is a peripheral component; a peripheral interface, a custom peripheral interface and an interface to off-chip (external device); the logic description is a synthesizable logic file, an HDL file, EDF file; generating the logic description comprising generating connector logic for allowing interconnects between the processor core and the peripheral; generating connector logic comprising identifying the I/O ports associated with the processor core and the peripherals (Fig. 1 and description; col. 14-18, summary).

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being obvious over Rhim et al. (6,006,022) in view of Brochure entitled "Triscent A7 32-bit Configurable System-on-Chip", pages 1-3, June 6, 2001.

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12. As to claims 3-4, the Brochure teach the peripheral is a UART and a timer (see page 1). It would have obvious to one of ordinary skill in the art at the time the invention was made to incorporate the peripheral including a UART and a timer into the programmable chip as taught by Rhim et al. because this would provide the programmable chip to optionally adapted to various external devices.

13. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being obvious over Rhim et al. (6,006,022) in view of Gauthier et al. (6,574,791).

14. As to claims 16-17, Rhim et al does not teach wizard and subwizard. Gauthier et al. teach an object oriented wizard creation mechanism including a WizardDesigner mechanism for creating skeleton of new wizard, for specializing, and WizardMetaManager mechanism for persisting and retrieving created wizards. The WizardWizard guides the developer to define basic components of new wizard. The use of the component based framework with the WizardWizard and WizardDesigner provide a customizable and extensible wizard creation solution to that has utmost functionality and flexibility to the users and developers (please at least col. 2, col. 4, lines 26-41, col. 7, 9-10). Therefore, it would have obvious to one of ordinary skill in the art at the time the invention was made to utilizing the object oriented wizard creation mechanism as taught by Gauthier et al. during implementing the programmable chip as taught by Rhim et al. in order to customize the programmable chip including a core processor an peripheral by modifying parameter information of the core processor and peripheral to thereby providing various functionality of the programmable chip.

Allowable Subject Matter

15. Claims 13, 24 and 31 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906. The examiner can normally be reached on Increase Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vuthe Siek


VUTHE SIEK
PRIMARY EXAMINER